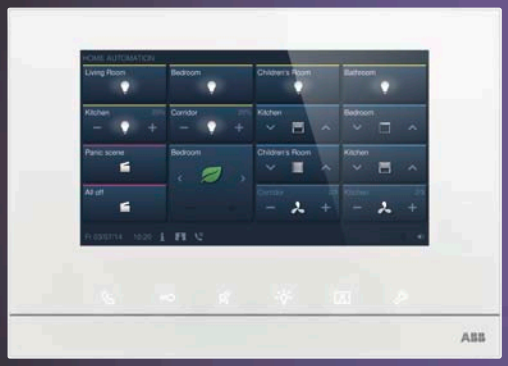


Busch-Jaeger Wiring Accessories. Innovations 2014.

Power and productivity
for a better world™

ABB-free@home® Sensors, room temperature controllers, movement detector, fan coils

Product	Article-No.	Order-No.	Pack/Qty

Sensor unit, 1gang [1] [2]
For ABB-free@home®
For transmitting switching, push-button, dimming and blind commands to an ABB-free@home® actuator.
Only to be used in combination with ABB-free@home® 1gang rockers.
The bus can be connected via enclosed terminal block.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 23 mm
Mounting depth: 9 mm

NEU Available from July 2014

SU-F-1.0.1		6220-0-0117	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

Sensor unit, 2gang [1] [2]
For ABB-free@home®
For transmitting switching, push-button, dimming and blind commands to an ABB-free@home® actuator.
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 23 mm
Mounting depth: 9 mm

NEU Available from July 2014

SU-F-2.0.1		6220-0-0118	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

Product	Article-No.	Order-No.	Pack/Qty

Movement detector [1] [2]
For ABB-free@home®
With select lens for detection with animal access.
For automatic switching of ABB-free@home® actuators dependent on movement and brightness.
Switch-off delay of the actuator can be programmed via the web interface of the System Access Point.
The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Detection range: frontal: 6 m, lateral: 3 m
Detection angle: 180 °
Brightness limit value: 1 Lux - 500 Lux
Mounting height: 1.1 m - 1.3 m
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 9 mm
Position for installation: vertical

Busch-Duro 2000® SI

NEU Available from July 2014

212	white	**MD-F-1.0.1-212**	6220-0-0218	1

Reflex SI

NEU Available from July 2014

214	alpine white	**MD-F-1.0.1-214**	6220-0-0219	1

future® linear

NEU Available from July 2014

81	anthracite	**MD-F-1.0.1-81**	6220-0-0212	1
83	aluminium silver	**MD-F-1.0.1-83**	6220-0-0213	1
84	studio white	**MD-F-1.0.1-84**	6220-0-0214	1

solo®

NEU Available from July 2014

84	studio white	**MD-F-1.0.1-84**	6220-0-0214	1

Busch-axcent®

NEU Available from July 2014

84	studio white	**MD-F-1.0.1-84**	6220-0-0214	1

carat®

NEU Available from July 2014

81	anthracite	**MD-F-1.0.1-81**	6220-0-0212	1
84	studio white	**MD-F-1.0.1-84**	6220-0-0214	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

Room temperature controller [1] [2]
For ABB-free@home®
Heating/cooling operation.
Control element with room temperature controller function for controlling commercially available actuating drives or analogue actuating drives (continuous controllers) in connection with HA-M-0.6.1, HA-M-0.12.1.
With display of set-value temperature.
Only to be used in combination with ABB-free@home® room temperature controller cover plates CP-RTC-xxx.
The bus can be connected via enclosed terminal block.
Control element: Floating rocker for the selection of set values and operating modes
Display elements: LCD showing operation modes
Bus voltage: 24 V
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 14 mm

NEU Available from July 2014

RTC-F-1		6220-0-0122	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home® Sensors, room temperature controllers, movement detector, fan coils

Product	Article-No.	Order-No.	Pack/Qty

ABB-free@home*Touch* 7“ [1] [2] [3]
Indoor video station with 17.8 cm (7“) touch display
For ABB-free@home® and ABB-Welcome.
For the central control of up to 16 configurable free@home functions and display of the video image of an outdoor door communication station.
During the conversation a picture of the visitor can be taken and stored in the picture memory.
For door calls during absence three pictures of the visitor are automatically stored in the picture memory.
With hands-free function, volume is adjustable.
Easy operation keys for door openers, mute function and light.
Different bell sounds are adjustable for door and floor ringing; five polyphone bell sounds are available.
Volume of bell sounds is adjustable.
SD card slot for extension of the picture memory.
Suitable as room temperature controller extension unit.
For surface mounting.
The bus can be connected via enclosed terminal block.
Display size: 17,8 cm (7“)
Display resolution: 800 x 480
Display elements: TFT Touch Display
Protection class (Device): IP 30
Dimensions: (L x W x D): 155 mm x 218 mm x 29 mm

NEU Available from July 2014

611 white	**DP7-S-611**	8300-0-0356	1
625 black	**DP7-S-625**	8300-0-0357	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.
3) The power is supplied by the ABB-Welcome system controller 83300.

ABB-free@home® Sensor/actuator units

Product	Article-No.	Order-No.	Pack/Qty

Switch actuator sensor, 1/1gang [1] [2]
For ABB-free@home®
For switching 230 V~ consumers.
With integrated switch actuator.
Switching function is available also without prior programming (pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 1gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Normally open contact, potential free
Suitable for: ohmic
Rated current: 10 A
Output voltage: 230 V~
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Rated power: 2300 VA
Suitable for: inductive
Rated current: 10 AX
Rated power: 2300 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

NEU Available from July 2014

	SSA-F-1.1.1	6220-0-0123	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

Switch actuator sensor, 2/1gang [1] [2]
For ABB-free@home®
For switching 230 V~ consumers.
With integrated switch actuator.
Switching function is available also without prior programming (left sensor channel is pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
The right sensor channel for programming additional functions (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Normally open contact, potential free
Suitable for: ohmic
Rated current: 10 A
Output voltage: 230 V~
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Rated power: 2300 VA
Suitable for: inductive
Rated current: 10 AX
Rated power: 2300 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

NEU Available from July 2014

	SSA-F-2.1.1	6220-0-0124	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

Product	Article-No.	Order-No.	Pack/Qty

Switch actuator sensor, 2/2gang [1] [2]
For ABB-free@home®
For switching 230 V~ consumers.
With integrated 2gang switch actuator.
Switching function is available also without prior programming (both sensor channels are pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 2x Normally open contact, potential free
Suitable for: ohmic
Rated current: 5 A
Output voltage: 230 V~
Rated power: 1380 W
Suitable for: capacitive
Rated current: 4 AX
Rated power: 920 VA
Suitable for: inductive
Rated current: 4 AX
Rated power: 920 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

NEU Available from July 2014

SSA-F-2.2.1	6220-0-0125	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

Dimming actuator sensor, 1/1gang [1] [2] [3]
For ABB-free@home®
For dimming 230 V~ loads.
With integrated universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps.
For dimmable Retrofit-LEDs (LEDi).
Dimming function is available also without prior programming (pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 1gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer.
Rated power: 10 - 180 W/VA
Suitable for: LEDi and energy-saving bulbs; typical
Rated power: 2 - 80 W/VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

NEU Available from July 2014

SDA-F-1.1.1	6220-0-0126	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.
3) A reference list with LEDi light sources can be downloaded from www.abb.com/freeathome.

Product	Article-No.	Order-No.	Pack/Qty

Dimming actuator sensor, 2/1gang [1] [2] [3]
For ABB-free@home®
For dimming 230 V~ loads.
With integrated universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps.
For dimmable Retrofit-LEDs (LEDi).
Dimming function is available also without prior programming (left sensor channel is pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
The right sensor channel for programming additional functions (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer.
Rated power: 10 - 180 W/VA
Suitable for: LEDi and energy-saving bulbs; typical
Rated power: 2 - 80 W/VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

NEU Available from July 2014

SDA-F-2.1.1	6220-0-0127	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.
3) A reference list with LEDi light sources can be downloaded from www.abb.com/freeathome.

Blind actuator sensor, 1/1gang [1] [2]
For ABB-free@home®
For controlling blind or awning motors.
With integrated blind actuator.
Blind function is available also without prior programming (pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 1gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Change-over contacts/normally open contact, potential-bound
Suitable for: Operation mode blind
Rated current: 4 A
Output voltage: 230 V~
Rated power: 920 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

NEU Available from July 2014

SBA-F-1.1.1	6220-0-0128	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

Product	Article-No.	Order-No.	Pack/Qty

Blind actuator sensor, 2/1gang [1] [2]
For ABB-free@home®
For controlling blind or awning motors.
With integrated blind actuator.
Blind function is available also without prior programming (left sensor channel is pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
The right sensor channel for programming additional functions (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Change-over contacts/normally open contact, potential-bound
Suitable for: Operation mode blind
Rated current: 4 A
Output voltage: 230 V~
Rated power: 920 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

NEU Available from July 2014

SBA-F-2.1.1	6220-0-0129	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

Product	Article-No.	Order-No.	Pack/Qty

Movement detector/switch actuator, 1gang [1] [2]
For ABB-free@home®
With select lens for detection with animal access.
For automatic switching of ABB-free@home® actuators dependent on movement and brightness.
Switch-off delay of the actuator can be programmed via the web interface of the System Access Point.
For switching 230 V~ consumers.
With integrated switch actuator.
Switching function is available also without prior programming (pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Bus voltage: 24 V
Outputs: 1x Normally open contact, potential free
Suitable for: ohmic
Rated current: 10 A
Output voltage: 230 V~
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Rated power: 2300 VA
Suitable for: inductive
Rated current: 10 AX
Rated power: 2300 VA
Detection range: frontal: 6 m, lateral: 3 m
Detection angle: 180 °
Brightness limit value: 1 Lux - 500 Lux
Mounting height: 1.1 m - 1.3 m
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 53 mm
Mounting depth: 32 mm
Position for installation: vertical

Busch-Duro 2000® SI

NEU Available from July 2014

212	white	**MSA-F-1.1.1-212**	6220-0-0220	1

Reflex SI

NEU Available from July 2014

214	alpine white	**MSA-F-1.1.1-214**	6220-0-0221	1

future® linear

NEU Available from July 2014

81	anthracite	**MSA-F-1.1.1-81**	6220-0-0215	1
83	aluminium silver	**MSA-F-1.1.1-83**	6220-0-0216	1
84	studio white	**MSA-F-1.1.1-84**	6220-0-0217	1

solo®

NEU Available from July 2014

84	studio white	**MSA-F-1.1.1-84**	6220-0-0217	1

Busch-axcent®

NEU Available from July 2014

84	studio white	**MSA-F-1.1.1-84**	6220-0-0217	1

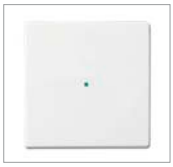
carat®

NEU Available from July 2014

81	anthracite	**MSA-F-1.1.1-81**	6220-0-0215	1
84	studio white	**MSA-F-1.1.1-84**	6220-0-0217	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®
Covers

Product	Article-No.	Order-No.	Pack/Qty
	Rocker **1gang, without printing** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
	NEU Available from July 2014		
212 white	**SR-1-212**	6220-0-0182	10
	Reflex SI		
	NEU Available from July 2014		
214 alpine white	**SR-1-214**	6220-0-0183	10
	future® linear		
	NEU Available from July 2014		
81 anthracite	**SR-1-81**	6220-0-0137	10
83 aluminium silver	**SR-1-83**	6220-0-0138	10
84 studio white	**SR-1-84**	6220-0-0139	10
	solo®		
	NEU Available from July 2014		
84 studio white	**SR-1-84**	6220-0-0139	10
	Busch-axcent®		
	NEU Available from July 2014		
84 studio white	**SR-1-84**	6220-0-0139	10
	carat®		
	NEU Available from July 2014		
81 anthracite	**SR-1-81**	6220-0-0137	10
84 studio white	**SR-1-84**	6220-0-0139	10
	Rocker **1gang, with „Light“ icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
	NEU Available from July 2014		
212 white	**SRL-1-212**	6220-0-0184	10
	Reflex SI		
	NEU Available from July 2014		
214 alpine white	**SRL-1-214**	6220-0-0185	10
	future® linear		
	NEU Available from July 2014		
81 anthracite	**SRL-1-81**	6220-0-0140	10
83 aluminium silver	**SRL-1-83**	6220-0-0141	10
84 studio white	**SRL-1-84**	6220-0-0142	10
	solo®		
	NEU Available from July 2014		
84 studio white	**SRL-1-84**	6220-0-0142	10
	Busch-axcent®		
	NEU Available from July 2014		
84 studio white	**SRL-1-84**	6220-0-0142	10
	carat®		
	NEU Available from July 2014		
81 anthracite	**SRL-1-81**	6220-0-0140	10
84 studio white	**SRL-1-84**	6220-0-0142	10

Product	Article-No.	Order-No.	Pack/Qty
	Rocker **1gang, with „Blind“ icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
	NEU Available from July 2014		
212 white	**SRB-1-212**	6220-0-0186	10
	Reflex SI		
	NEU Available from July 2014		
214 alpine white	**SRB-1-214**	6220-0-0187	10
	future® linear		
	NEU Available from July 2014		
81 anthracite	**SRB-1-81**	6220-0-0143	10
83 aluminium silver	**SRB-1-83**	6220-0-0144	10
84 studio white	**SRB-1-84**	6220-0-0145	10
	solo®		
	NEU Available from July 2014		
84 studio white	**SRB-1-84**	6220-0-0145	10
	Busch-axcent®		
	NEU Available from July 2014		
84 studio white	**SRB-1-84**	6220-0-0145	10
	carat®		
	NEU Available from July 2014		
81 anthracite	**SRB-1-81**	6220-0-0143	10
84 studio white	**SRB-1-84**	6220-0-0145	10
	Rocker **1gang, with „Scene“ icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
	NEU Available from July 2014		
212 white	**SRS-1-212**	6220-0-0188	10
	Reflex SI		
	NEU Available from July 2014		
214 alpine white	**SRS-1-214**	6220-0-0189	10
	future® linear		
	NEU Available from July 2014		
81 anthracite	**SRS-1-81**	6220-0-0146	10
83 aluminium silver	**SRS-1-83**	6220-0-0147	10
84 studio white	**SRS-1-84**	6220-0-0148	10
	solo®		
	NEU Available from July 2014		
84 studio white	**SRS-1-84**	6220-0-0148	10
	Busch-axcent®		
	NEU Available from July 2014		
84 studio white	**SRS-1-84**	6220-0-0148	10
	carat®		
	NEU Available from July 2014		
81 anthracite	**SRS-1-81**	6220-0-0146	10
84 studio white	**SRS-1-84**	6220-0-0148	10

Product	Article-No.	Order-No.	Pack/Qty
	Rocker **1gang, with „Dimmer“ icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
212 white	NEU **SRD-1-212**	Available from July 2014 6220-0-0190	10
	Reflex SI		
214 alpine white	NEU **SRD-1-214**	Available from July 2014 6220-0-0191	10
	future® linear		
81 anthracite	NEU **SRD-1-81**	Available from July 2014 6220-0-0149	10
83 aluminium silver	**SRD-1-83**	6220-0-0150	10
84 studio white	**SRD-1-84**	6220-0-0151	10
	solo®		
84 studio white	NEU **SRD-1-84**	Available from July 2014 6220-0-0151	10
	Busch-axcent®		
84 studio white	NEU **SRD-1-84**	Available from July 2014 6220-0-0151	10
	carat®		
81 anthracite	NEU **SRD-1-81**	Available from July 2014 6220-0-0149	10
84 studio white	**SRD-1-84**	6220-0-0151	10
	Rocker **2gang left/right, without printing** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
212 white	NEU **SR-2-212**	Available from July 2014 6220-0-0192	10
	Reflex SI		
214 alpine white	NEU **SR-2-214**	Available from July 2014 6220-0-0193	10
	future® linear		
81 anthracite	NEU **SR-2-81**	Available from July 2014 6220-0-0152	10
83 aluminium silver	**SR-2-83**	6220-0-0153	10
84 studio white	**SR-2-84**	6220-0-0154	10
	solo®		
84 studio white	NEU **SR-2-84**	Available from July 2014 6220-0-0154	10
	Busch-axcent®		
84 studio white	NEU **SR-2-84**	Available from July 2014 6220-0-0154	10
	carat®		
81 anthracite	NEU **SR-2-81**	Available from July 2014 6220-0-0152	10
84 studio white	**SR-2-84**	6220-0-0154	10

Product	Article-No.	Order-No.	Pack/Qty
	Rocker **2gang left, with „Light“ icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
212 white	NEU **SRL-2-L-212**	Available from July 2014 6220-0-0194	10
	Reflex SI		
214 alpine white	NEU **SRL-2-L-214**	Available from July 2014 6220-0-0195	10
	future® linear		
81 anthracite	NEU **SRL-2-L-81**	Available from July 2014 6220-0-0155	10
83 aluminium silver	**SRL-2-L-83**	6220-0-0156	10
84 studio white	**SRL-2-L-84**	6220-0-0157	10
	solo®		
84 studio white	NEU **SRL-2-L-84**	Available from July 2014 6220-0-0157	10
	Busch-axcent®		
84 studio white	NEU **SRL-2-L-84**	Available from July 2014 6220-0-0157	10
	carat®		
81 anthracite	NEU **SRL-2-L-81**	Available from July 2014 6220-0-0155	10
84 studio white	**SRL-2-L-84**	6220-0-0157	10
	Rocker **2gang left/right, „Blind“ icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
212 white	NEU **SRB-2-212**	Available from July 2014 6220-0-0196	10
	Reflex SI		
214 alpine white	NEU **SRB-2-214**	Available from July 2014 6220-0-0197	10
	future® linear		
81 anthracite	NEU **SRB-2-81**	Available from July 2014 6220-0-0158	10
83 aluminium silver	**SRB-2-83**	6220-0-0159	10
84 studio white	**SRB-2-84**	6220-0-0160	10
	solo®		
84 studio white	NEU **SRB-2-84**	Available from July 2014 6220-0-0160	10
	Busch-axcent®		
84 studio white	NEU **SRB-2-84**	Available from July 2014 6220-0-0160	10
	carat®		
81 anthracite	NEU **SRB-2-81**	Available from July 2014 6220-0-0158	10
84 studio white	**SRB-2-84**	6220-0-0160	10

ABB-free@home®
Covers

Product	Article-No.	Order-No.	Pack/Qty
	Rocker **2gang left, with „Scene“ icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
	NEU Available from July 2014		
212 white	**SRS-2-L-212**	6220-0-0198	10
	Reflex SI		
	NEU Available from July 2014		
214 alpine white	**SRS-2-L-214**	6220-0-0199	10
	future® linear		
	NEU Available from July 2014		
81 anthracite	**SRS-2-L-81**	6220-0-0161	10
83 aluminium silver	**SRS-2-L-83**	6220-0-0162	10
84 studio white	**SRS-2-L-84**	6220-0-0163	10
	solo®		
	NEU Available from July 2014		
84 studio white	**SRS-2-L-84**	6220-0-0163	10
	Busch-axcent®		
	NEU Available from July 2014		
84 studio white	**SRS-2-L-84**	6220-0-0163	10
	carat®		
	NEU Available from July 2014		
81 anthracite	**SRS-2-L-81**	6220-0-0161	10
84 studio white	**SRS-2-L-84**	6220-0-0163	10
	Rocker **2gang left, with „Dimmer“ icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
	NEU Available from July 2014		
212 white	**SRD-2-L-212**	6220-0-0200	10
	Reflex SI		
	NEU Available from July 2014		
214 alpine white	**SRD-2-L-214**	6220-0-0201	10
	future® linear		
	NEU Available from July 2014		
81 anthracite	**SRD-2-L-81**	6220-0-0164	10
83 aluminium silver	**SRD-2-L-83**	6220-0-0165	10
84 studio white	**SRD-2-L-84**	6220-0-0166	10
	solo®		
	NEU Available from July 2014		
84 studio white	**SRD-2-L-84**	6220-0-0166	10
	Busch-axcent®		
	NEU Available from July 2014		
84 studio white	**SRD-2-L-84**	6220-0-0166	10
	carat®		
	NEU Available from July 2014		
81 anthracite	**SRD-2-L-81**	6220-0-0164	10
84 studio white	**SRD-2-L-84**	6220-0-0166	10

Product	Article-No.	Order-No.	Pack/Qty
	Rocker **2gang right, with „Light“ icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
	NEU Available from July 2014		
212 white	**SRL-2-R-212**	6220-0-0202	10
	Reflex SI		
	NEU Available from July 2014		
214 alpine white	**SRL-2-R-214**	6220-0-0203	10
	future® linear		
	NEU Available from July 2014		
81 anthracite	**SRL-2-R-81**	6220-0-0167	10
83 aluminium silver	**SRL-2-R-83**	6220-0-0168	10
84 studio white	**SRL-2-R-84**	6220-0-0169	10
	solo®		
	NEU Available from July 2014		
84 studio white	**SRL-2-R-84**	6220-0-0169	10
	Busch-axcent®		
	NEU Available from July 2014		
84 studio white	**SRL-2-R-84**	6220-0-0169	10
	carat®		
	NEU Available from July 2014		
81 anthracite	**SRL-2-R-81**	6220-0-0167	10
84 studio white	**SRL-2-R-84**	6220-0-0169	10
	Rocker **2gang right, with „Scene“ icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
	NEU Available from July 2014		
212 white	**SRS-2-R-212**	6220-0-0206	10
	Reflex SI		
	NEU Available from July 2014		
214 alpine white	**SRS-2-R-214**	6220-0-0207	10
	future® linear		
	NEU Available from July 2014		
81 anthracite	**SRS-2-R-81**	6220-0-0173	10
83 aluminium silver	**SRS-2-R-83**	6220-0-0174	10
84 studio white	**SRS-2-R-84**	6220-0-0175	10
	solo®		
	NEU Available from July 2014		
84 studio white	**SRS-2-R-84**	6220-0-0175	10
	Busch-axcent®		
	NEU Available from July 2014		
84 studio white	**SRS-2-R-84**	6220-0-0175	10
	carat®		
	NEU Available from July 2014		
81 anthracite	**SRS-2-R-81**	6220-0-0173	10
84 studio white	**SRS-2-R-84**	6220-0-0175	10

ABB-free@home®
Covers

Product	Article-No.	Order-No.	Pack/Qty
	Rocker **2gang right, with „Dimmer“ icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
	Busch-Duro 2000® SI		
	NEU Available from July 2014		
212 white	**SRD-2-R-212**	6220-0-0261	10
	Reflex SI		
	NEU Available from July 2014		
214 alpine white	**SRD-2-R-214**	6220-0-0262	10
	future® linear		
	NEU Available from July 2014		
81 anthracite	**SRD-2-R-81**	6220-0-0258	10
83 aluminium silver	**SRD-2-R-83**	6220-0-0259	10
84 studio white	**SRD-2-R-84**	6220-0-0260	10
	solo®		
	NEU Available from July 2014		
84 studio white	**SRD-2-R-84**	6220-0-0260	10
	Busch-axcent®		
	NEU Available from July 2014		
84 studio white	**SRD-2-R-84**	6220-0-0260	10
	carat®		
	NEU Available from July 2014		
81 anthracite	**SRD-2-R-81**	6220-0-0258	10
84 studio white	**SRD-2-R-84**	6220-0-0260	10
	Cover plate **For room temperature controller.** As cover for ABB-free@home® room temperature controller RTC-F-1.		
	Busch-Duro 2000® SI		
	NEU Available from July 2014		
212 white	**CP-RTC-212**	6220-0-0210	10
	Reflex SI		
	NEU Available from July 2014		
214 alpine white	**CP-RTC-214**	6220-0-0211	10
	future® linear		
	NEU Available from July 2014		
81 anthracite	**CP-RTC-81**	6220-0-0179	10
83 aluminium silver	**CP-RTC-83**	6220-0-0180	10
84 studio white	**CP-RTC-84**	6220-0-0181	10
	solo®		
	NEU Available from July 2014		
84 studio white	**CP-RTC-84**	6220-0-0181	10
	Busch-axcent®		
	NEU Available from July 2014		
84 studio white	**CP-RTC-84**	6220-0-0181	10
	carat®		
	NEU Available from July 2014		
81 anthracite	**CP-RTC-81**	6220-0-0179	10
84 studio white	**CP-RTC-84**	6220-0-0181	10

ABB-free@home®
System accessories

Product	Article-No.	Order-No.	Pack/Qty
	System Access Point [1] [2] **For ABB-free@home®** For commissioning and remote control of the ABB-free@ home® system. Allows the execution of astro and time programs. Commissioning and remote control is executed via the web interface or app. No additional commissioning software is required. Easy commissioning with WLAN ad-hoc mode. Connection to the home network via WLAN client mode or via CAT cable. The bus can be connected via enclosed terminal block. Display elements: LED for status display. Bus voltage: 24 V Rated voltage: 230 V~ Rated frequency: 50 Hz/60 Hz Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 110 mm x 170 mm x 31 mm		
	NEU Available from July 2014		
84 studio white	**SAP-S-1-84**	6220-0-0136	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

	Power supply **For ABB-free@home®** Power supply with integrated choke. Fast diagnosis due to LED display for operational readiness and errors. The bus can be connected via enclosed terminal block. Display elements: Operational load/overload LED Rated voltage: 230 V~, +10 % / -15 % Secondary: 30 V, +2 V / --2 V Rated frequency: 50 Hz/60 Hz Outputs: 1 Rated current: 640 mA Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm Module width: 4 MW		
	NEU Available from July 2014		
PS-M-64.1.1		2CD-G510001R0011	1

Product	Article-No.	Order-No.	Pack/Qty

Switch actuator, 4gang [1] [2]
For ABB-free@home®
For switching 4 independent 230 V~ loads.
Each contact has a manual operation function independent of auxiliary voltage for additionally displaying the contact setting.
The bus can be connected via enclosed terminal block.
Control element: Relay control element
Display elements: Relay control element
Bus voltage: 24 V
Outputs: 4
Suitable for: AC1
Rated current: 16 A, cos φ 0.8
Output voltage: 230 V~
Suitable for: AC3
Rated current: 8 A, cos φ 0.45
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm
Module width: 4 MW

NEU Available from July 2014

SA-M-0.4.1	2CD-G510006R0011	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

Heating actuator, 6gang [1] [2]
For ABB-free@home®
For controlling thermoelectric actuating drives in heating/cooling systems.
The outputs are protected against short-circuit and overload.
The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Outputs: 6
Suitable for: ohmic
Rated current: 160 mA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm
Module width: 4 MW

NEU Available from July 2014

HA-M-0.6.1	2CD-G510008R0011	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

Heating actuator, 12gang [1] [2]
For ABB-free@home®
For controlling thermoelectric actuating drives in heating/cooling systems.
The outputs are protected against short-circuit and overload.
The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Outputs: 12
Suitable for: ohmic
Rated current: 160 mA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 144 mm x 64 mm
Module width: 8 MW

NEU Available from July 2014

HA-M-0.12.1	2CD-G510009R0011	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

Product	Article-No.	Order-No.	Pack/Qty

Blind actuator, 4gang [1] [2]
For ABB-free@home®
For controlling 4 independent blind or roller shutter drives.
The outputs are inversely blocked. The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Outputs: 4
Suitable for: AC3
Rated current: 6 A, cos φ 0.45
Output voltage: 230 V~
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm
Module width: 4 MW

NEU Available from July 2014

BA-M-0.4.1	2CD-G510011R0011	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

Dimming actuator, 4gang [1] [2] [3]
For ABB-free@home®
Multi-channel universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps.
For dimmable Retrofit-LEDs (LEDi).
Increasing the max. load via channel bridging possible.
The outputs can be switched parallel in any combination.
Outputs automatically recognise the connected load.
In addition, the operating mode can be selected manually.
Status indication of the channels via LED.
The bus can be connected via enclosed terminal block.
Display elements: Outputs status indication via LED.
Bus voltage: 24 V
Rated voltage: 230 V~
Rated frequency: 50 Hz/60 Hz
Outputs: 4x dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer.
Rated power: 10 - 315 W/VA
Suitable for: LEDi and energy-saving bulbs; typical
Rated power: 2 - 80 W/VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 144 mm x 64 mm
Module width: 8 MW

NEU Available from July 2014

DA-M-0.4.1	6220-0-0135	1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.
3) A reference list with LEDi light sources can be downloaded from www.abb.com/freeathome.

ABB-free@home®
Binary inputs

Product	Article-No.	Order-No.	Pack/Qty

Binary input, 4gang [1] [2]
For ABB-free@home®
Records AC/DC signals of 10 - 230 V via 4 channels. The information of the signal evaluation can be used for controlling ABB-free@home® actuators or for recording status information.
The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Inputs: 4
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 36 mm x 64 mm
Module width: 2 MW

NEU Available from July 2014

BI-M-4.0.1	2CD-G510004R0011	1	

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

2gang binary input, flush-mounted [1] [2]
For ABB-free@home®
Conventional push-buttons or auxiliary contacts can be connected to 2 channels. The information of the contact enquiry can be used for activating ABB-free@home® actuators or for recording status information.
The contact polling voltage is made available from the binary input itself. Extension of the connecting cables possible by a maximum of 10 m.
Flush-mounted device for installation in a 60 mm device box or distribution box.
The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Inputs: 2
Polling voltage: 20 V-,
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 39 mm x 40 mm x 12 mm

NEU Available from July 2014

BI-F-2.0.1	2CD-G510002R0011	1	

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

4gang binary input, flush-mounted [1] [2]
For ABB-free@home®
Conventional push-buttons or auxiliary contacts can be connected to 4 channels. The information of the contact enquiry can be used for activating ABB-free@home® actuators or for recording status information.
The contact polling voltage is made available from the binary input itself. Extension of the connecting cables possible by a maximum of 10 m.
Flush-mounted device for installation in a 60 mm device box or distribution box.
The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Inputs: 4
Polling voltage: 20 V-,
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 39 mm x 40 mm x 12 mm

NEU Available from July 2014

BI-F-4.0.1	2CD-G510003R0011	1	

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

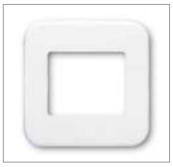
Twilight switches / proximity switches / stroboscope light signals

Product	Article-No.	Order-No.	Pack/Qty

Proximity switch
3 wire connection (neutral conductor required).
Relay insert with proximity sensor.
For contactless ON/OFF switching of electric loads, e.g. lights.
For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers.
Switches when detecting an approach at < approx. 5 cm.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are operated via transformers.
Rated current: 10 AX
Rated power: 2300 W/VA
Temperature range (Device): -25 °C to 55 °C
British Standard EN 60669-2-1

NEU Available from July 2014

6406 U	6400-0-0034	1	



Cover plate
For proximity switch 6406 U.

Busch-Duro 2000® SI

NEU Available from July 2014

212	white	**6476-212**	6470-0-0001	10

Reflex SI

NEU Available from July 2014

214	alpine white	**6476-214**	6470-0-0002	10

Cover plate
For proximity switch 6406 U.

future® linear

NEU Available from July 2014

82	ivory white	**6476-82**	6470-0-0003	10
84	studio white	**6476-84**	6470-0-0004	10

solo®

NEU Available from July 2014

82	ivory white	**6476-82**	6470-0-0003	10
84	studio white	**6476-84**	6470-0-0004	10

Busch-axcent®

NEU Available from July 2014

84	studio white	**6476-84**	6470-0-0004	10

carat®

NEU Available from July 2014

82	ivory white	**6476-82**	6470-0-0003	10
84	studio white	**6476-84**	6470-0-0004	10

Busch-Detector

Product	Article-No.	Order-No.	Pack/Qty

Busch-Smoke alarm detector ProfessionalLINE [1]
For early detection of smouldering fires and open fires with smoke build-up indoors acc. to photo-optical measuring principle (Tyndall).
Permanently installed lithium battery with a service life of at least 10 years.
With test button and mute function.
VdS certification (German organisation of property assurers)
Tested according to DIN EN 14604.
Audible alarm with 85 dBA at 3 m.
Dismantling safety.
Networkable via two-wire line for up to 20 detectors.
Networkable via radio module 6828 for up to 20 detectors.
„Q“ certificate according to VdS 3131 / vfdb directive 14-01.
Diameter: 120 mm.
Height: 47.50 mm.

NEU

84 studio white **6833/01-84-500** 6800-0-2721 1/10

1) Power supply: 3 V lithium battery (permanently installed) with a service life of at least 10 years.

Busch-Smoke alarm detector ProfessionalLINE
For early detection of smouldering fires and open fires with smoke build-up indoors acc. to photo-optical measuring principle (Tyndall).
Permanently installed lithium battery with a service life of at least 10 years.
With test button and mute function.
VdS certification (German organisation of property assurers)
Tested according to DIN EN 14604.
Audible alarm with 85 dBA at 3 m.
Dismantling safety.
Not networkable.
Diameter: 120 mm.
Height: 47.50 mm.

Lithium battery [1] [2]

NEU

84 studio white **6833-84-500** 6800-0-2720 1/10

Alkaline battery [3]

NEU

84 studio white **6834-84-500** 6800-0-2719 1/10

1) Power supply: 3 V lithium battery (permanently installed) with a service life of at least 10 years.
2) „Q“ certificate according to VdS 3131 / vfdb directive 14-01.
3) Power supply: 9 V alkaline battery (in scope of supply) with service life up to 2 years.

Busch-Heat alarm detector ProfessionalLINE
Signal triggering when over 50°C.
Permanently installed lithium battery with a service life of at least 10 years.
With test button and mute function.
VdS certification (German organisation of property assurers)
Tested according to DIN EN 14604.
Audible alarm with 85 dBA at 3 m.
Dismantling safety.
Networkable via two-wire line for up to 20 detectors.
Networkable via radio module 6828 for up to 20 detectors.

NEU

84 studio white **6835/01-84-500** 6800-0-2723 1

Inserts for room temperature controllers

Product	Article-No.	Order-No.	Pack/Qty

Room temperature controller [1] [2] [3]
With 2 independent relay contacts (normally open contact) each for heating and cooling
With separate connection (230 V~) for external switchover between heating or cooling.
Switch contact opens when the set temperature is reached.
with fixing claws
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
EN 60730-2-9, British Standard EN 60669-2-1

NEU

1099 UHK 1032-0-0515 1/10

1) Only in conjunction with standard flush-mounting boxes according to DIN 49073, Part 1, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
2) Servo-valves, „closed when de-energized“, are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
3) Switching temperature difference: ± 0.5 K.

Room temperature controller [1] [2] [3]
With 2 independent relay contacts (normally open contact) each for heating and cooling
With built-in sliding switch for switchover between cooling or heating.
Switch contact opens when the set temperature is reached.
with fixing claws
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
EN 60730-2-9, British Standard EN 60669-2-1

NEU

1099 UHKEA 1032-0-0516 1/10

1) Only in conjunction with standard flush-mounting boxes according to DIN 49073, Part 1, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
2) Servo-valves, „closed when de-energized“, are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
3) Switching temperature difference: ± 0.5 K.

Control elements for room temperature controllers

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate **For room temperature controller.** For room temperature controller 1099 UHK. Busch-Duro 2000® SI		
	NEU		
212 white	**1795 HK-212**	1710-0-3996	10
	Reflex SI		
	NEU		
214 alpine white	**1795 HK-214**	1710-0-3997	10
	Cover plate **For room temperature controller.** For room temperature controller 1099 UHK. *alpha*		
	NEU		
20 platinum [1]	**1795 HK-20**	1710-0-3998	10
21 bronze [1]	**1795 HK-21**	1710-0-3999	10
22G ivory	**1795 HK-22G**	1710-0-4000	10
24 studio white matt	**1795 HK-24**	1710-0-4001	10
24G studio white	**1795 HK-24G**	1710-0-4002	10
260 palladium [1]	**1795 HK-260**	1710-0-4003	10
266 titanium [1]	**1795 HK-266**	1710-0-4004	10
	Cover plate **For room temperature controller.** For room temperature controller 1099 UHK. *impuls*		
	NEU		
72 ivory	**1795 HK-72**	1710-0-4005	10
74 alpine white	**1795 HK-74**	1710-0-4006	10
774 studio white matt [1]	**1795 HK-774**	1710-0-4007	10
775 black matt [1]	**1795 HK-775**	1710-0-4008	10
777 blackberry [1]	**1795 HK-777**	1710-0-4009	10
783 aluminium silver [1]	**1795 HK-783**	1710-0-4010	10
79 champagne metallic [1]	**1795 HK-79**	1710-0-4011	10

1) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate **For room temperature controller.** For room temperature controller 1099 UHK. future® linear		
	NEU		
81 anthracite	**1795 HK-81**	1710-0-4013	10
82 ivory	**1795 HK-82**	1710-0-4015	10
83 aluminium silver [1]	**1795 HK-83**	1710-0-4016	10
84 studio white	**1795 HK-84**	1710-0-4017	10
884 studio white, matt [1]	**1795 HK-884**	1710-0-4019	10
885 black matt [1]	**1795 HK-885**	1710-0-4020	10
	solo®		
	NEU		
82 ivory	**1795 HK-82**	1710-0-4015	10
84 studio white	**1795 HK-84**	1710-0-4017	10
803 grey metallic [1]	**1795 HK-803**	1710-0-4012	10
815 yellow	**1795 HK-815**	1710-0-4014	10
	Busch-axcent®		
	NEU		
84 studio white	**1795 HK-84**	1710-0-4017	10
896 chalet-white	**1795 HK-896**	1710-0-4021	10
	carat®		
	NEU		
81 anthracite	**1795 HK-81**	1710-0-4013	10
82 ivory	**1795 HK-82**	1710-0-4015	10
84 studio white	**1795 HK-84**	1710-0-4017	10
	pure stainless steel [1]		
	NEU		
866 stainless steel	**1795 HK-866**	1710-0-4018	10
	Cover plate **for room temperature controller** For room temperature controller 1099 UHKEA. With sliding switch for switchover between cooling or heating. Busch-Duro 2000® SI		
	NEU		
212 white	**1795 HKEA-212**	1710-0-4028	10
	Reflex SI		
	NEU		
214 alpine white	**1795 HKEA-214**	1710-0-4029	10
	Cover plate **for room temperature controller** For room temperature controller 1099 UHKEA. With sliding switch for switchover between cooling or heating. *alpha*		
	NEU		
20 platinum [1]	**1795 HKEA-20**	1710-0-4030	10
21 bronze [1]	**1795 HKEA-21**	1710-0-4031	10
22G ivory	**1795 HKEA-22G**	1710-0-4032	10
24G studio white	**1795 HKEA-24G**	1710-0-4034	10
24 studio white matt	**1795 HKEA-24**	1710-0-4033	10
260 palladium [1]	**1795 HKEA-260**	1710-0-4035	10
266 titanium [1]	**1795 HKEA-266**	1710-0-4036	10

1) Surface painted.

Control elements for room temperature controllers

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate for room temperature controller For room temperature controller 1099 UHKEA. With sliding switch for switchover between cooling or heating.		
	impuls		
	NEU		
72 ivory	**1795 HKEA-72**	1710-0-4037	10
74 alpine white	**1795 HKEA-74**	1710-0-4038	10
775 black matt [1]	**1795 HKEA-775**	1710-0-4040	10
774 studio white matt [1]	**1795 HKEA-774**	1710-0-4039	10
777 blackberry [1]	**1795 HKEA-777**	1710-0-4041	10
783 aluminium silver [1]	**1795 HKEA-783**	1710-0-4042	10
79 champagne metallic [1]	**1795 HKEA-79**	1710-0-4043	10

1) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate for room temperature controller For room temperature controller 1099 UHKEA. With sliding switch for switchover between cooling or heating.		
	future® linear		
	NEU		
81 anthracite	**1795 HKEA-81**	1710-0-4045	10
82 ivory	**1795 HKEA-82**	1710-0-4047	10
83 aluminium silver [1]	**1795 HKEA-83**	1710-0-4048	10
84 studio white	**1795 HKEA-84**	1710-0-4049	10
884 studio white, matt [1]	**1795 HKEA-884**	1710-0-4051	10
885 black matt [1]	**1795 HKEA-885**	1710-0-4052	10
	solo®		
	NEU		
82 ivory	**1795 HKEA-82**	1710-0-4047	10
84 studio white	**1795 HKEA-84**	1710-0-4049	10
803 grey metallic [1]	**1795 HKEA-803**	1710-0-4044	10
815 yellow	**1795 HKEA-815**	1710-0-4046	10
	Busch-axcent®		
	NEU		
84 studio white	**1795 HKEA-84**	1710-0-4049	10
896 chalet-white	**1795 HKEA-896**	1710-0-4053	10
	carat®		
	NEU		
81 anthracite	**1795 HKEA-81**	1710-0-4045	10
82 ivory	**1795 HKEA-82**	1710-0-4047	10
84 studio white	**1795 HKEA-84**	1710-0-4049	10
	pure stainless steel [1]		
	NEU		
866 stainless steel	**1795 HKEA-866**	1710-0-4050	10

1) Surface painted.

Busch-Timer®

Product	Article-No.	Order-No.	Pack/Qty
	Comfort timer control element [1] For manual and time-controlled switching of blinds, roller blinds, awnings, lighting and other electrical devices. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Combined with Busch-Blind control II insert 6411 U/S-101, sun protection and twilight function. Freely adjustable temperature and brightness-dependent sun protection function. Freely adjustable twilight function. User-adjustable running times for blinds and air conditioning. 6 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. When combined with LED dimmer 6524 U, Busch-Universal master dimmer insert 6593 U or Busch-Memory touch-type controller 6550 U-101, the brightness of the lighting can be adjusted for each ON switching time. For Busch-Blind control II insert 6411 U-101, 6411 U/S-101. For Busch-Universal relay switch insert 6401 U-102. For Busch-Universal master dimmer insert 6593 U. For LED-Dimmer insert 6524 U. For Busch-Memory touch-type controller 6550 U-101. Temperature range (Device): 0 °C to 35 °C		
	NEU		
	6455-101-500	6410-0-0399	1

1) See respective cover plates 6435-xx.

Product	Article-No.	Order-No.	Pack/Qty
	Standard timer control element [1] For manual and time-controlled switching of blinds and roller blinds. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. 2 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. For basic blind insert 6418 U. Temperature range (Device): 0 °C to 35 °C		
	NEU		
	6456-101	6410-0-0398	1

1) See respective cover plates 6435-xx.

Product	Article-No.	Order-No.	Pack/Qty
	WaveLINE binary input, 2gang, 230 V~ [1] Radio control telegrams are sent when the two extension units are activated with mains voltage (AC 230 V~). Operation also possible via conventional push-buttons (2020 US, 2012/6 UK). The 2gang binary input has 5 function modes: 1.) 2-channel switching: Connection of conventional push buttons. Alternately sends ON/OFF telegrams when actuated. 2.) 2-channel dimming: Connection of conventional push buttons. Sends dimming telegrams when actuated. 3) 1-channel blind: Connection of a 2gang push-button or a blind control II insert. Sends telegrams to control a blind when actuated. 4.) Two-channel light scene control: Connection of conventional push-buttons. Light scenes are stored and started when actuated. 5.) Channel 1: Switching ON. Channel 2: Continuous switching ON/OFF: At „Switching ON“ an ON telegram is sent with a brief actuation. At „Continuous switching“ ON/OFF and actuated extension unit, an ON telegram is sent every minute, and an OFF telegram is sent every minute for a non-actuated extension unit. In dependence of the selected function, it can be combined with WaveLINE actuators 6701-101, 6702, 6703, 6704, 6705-101. Compatible with WaveLINE KNX gateway TP-RF 6770. Repeater function can be activated for extended range. For universal attachment or installation. Phase and neutral conductor required. For installation in (deep) flush-mounted boxes to German Standard DIN 49073, Part 1. Send/receive frequency: 868 MHz. Free-field range: approx. 100 m. Control element: Adjustable potentiometer Display elements: LED for status display. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 2 Polling voltage: 230 V~, potential-connected Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 47 mm x 48 mm x 14 mm Mounting depth: 15 mm		
	NEU		
white	**6725-500**	6720-0-0008	1/10

1) For further information please check the current e-catalogue.

Product	Article-No.	Order-No.	Pack/Qty
	WaveLINE switch actuator, 1gang, with extension unit [1] For wireless switching of electrical loads. Functions via radio control: ON/OFF, timer and light scene control. Functions via the extension unit: ON/OFF, timer and sending a radio control telegram. Operation also possible via conventional push-buttons (2020 US, 2012/6 UK). Actuation of the extension unit (via conventional push-button) causes the output to switch and a radio control telegram to be sent. Actuation of extension unit in ON/OFF function: Alternate sending of an ON/OFF telegram. Actuation of extension unit in timer function: Sending of an ON telegram. For Busch-Watchdog WaveLINE. For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx. For remote control WaveLINE 6780. For WaveLINE window position sensor 6720-6x. For WaveLINE 6721-xx universal signalling unit. For Busch-EnergyControl 6762-xx. Compatible with WaveLINE KNX gateway TP-RF 6770. Switch-off delay: Adjustable to 5 seconds, 1-5-15 minutes. Repeater function can be activated for extended range. For universal attachment or installation. 3 wire connection (neutral conductor required). For installation in (deep) flush-mounted boxes to German Standard DIN 49073, Part 1. Controllable up to 32 transmission addresses. Send/receive frequency: 868 MHz. Free-field range: approx. 100 m. Control element: Adjustable potentiometer Display elements: Status indication of output via LED. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Polling voltage: 230 V~, Sensing pulse, L-wire Outputs: 1x Normally open contact, potential-bound Suitable for: Resistive load Rated current: 10 A Output voltage: 230 V~ Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Output voltage: 230 V~ Rated power: 2300 VA Suitable for: inductive Rated current: 10 A, cos φ 0.6 Output voltage: 230 V~ Rated power: 2300 VA Protection class (Device): IP 20 Temperature range (Device): -20 °C to 45 °C Dimensions: (L x W x D): 47 mm x 48 mm x 22 mm Mounting depth: 25 mm		
	NEU		
	6701-101-500	6700-0-0040	1/10

1) For further information please check the current e-catalogue.

WaveLINE actuators, RF/KNX media converters

Product	Article-No.	Order-No.	Pack/Qty

WaveLINE series/blind actuator with extension unit [1])
For wireless switching of electrical loads.
For driving and adjusting blinds/shutters and awnings over radio.
Functions via radio control: 2gang switch, blind switch and light scene control.
Functions via extension unit: 2gang switch, blind switch and send radio control telegram.
Operation also possible via conventional push-buttons (2020 US, 2012/6 UK).
Actuation of the extension unit (via conventional push-button) causes the output to switch and a radio control telegram to be sent.
Actuation of the extension unit in 2gang switch function: An ON/OFF telegram is sent alternately.
Actuation of the extension unit in blind switch function: Extension unit 1 sends an UP and extension unit 2 sends a DOWN telegram.
For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx.
For remote control WaveLINE 6780.
For WaveLINE window position sensor 6720-6x.
For WaveLINE 6721-xx universal signalling unit.
For Busch-EnergyControl 6762-xx.
Compatible with WaveLINE KNX gateway TP-RF 6770.
With blind switch function: 3 minutes run time.
Repeater function can be activated for extended range.
For universal attachment or installation.
3 wire connection (neutral conductor required).
For installation in (deep) flush-mounted boxes to German Standard DIN 49073, Part 1.
Controllable up to 32 transmission addresses.
Send/receive frequency: 868 MHz.
Free-field range: approx. 100 m.
Control element: Adjustable potentiometer
Display elements: Status indication of output via LED.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 2
Polling voltage: 230 V~, Sensing pulse, L-wire
Outputs: 2x Normally open contact, potential-bound
Suitable for: Electrical drives.
Rated current: 3 A, cos φ 0.5
Output voltage: 230 V~
Rated power: 690 VA
Suitable for: 230 V incandescent lamps
Rated current: 3 A
Output voltage: 230 V~
Suitable for: Fluorescent lamps
Rated current: 3 AX
Output voltage: 230 V~
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 47 mm x 48 mm x 22 mm
Mounting depth: 25 mm

NEU

	6705-101-500	6700-0-0042	1/10

1) For further information please check the current e-catalogue.

Surface-mounted accessories for flush-mounted product ranges

Product	Article-No.	Order-No.	Pack/Qty

Surface-mounting box [1])
2gang, for corner mounting
Housing for inserts and cover plates or devices with full cover plate from the flush-mounted Reflex SI range.
Consisting of surface-mounted housing for corner mounting, including 2gang cover frame.
Temperature range (Device): -25 °C to 60 °C

NEU

214 alpine white	**1708-214**	1799-0-0985	1/20

1) Open cable entries with a suitable tool.

Busch-DigitalRadio [1]) [2])
Complete set for corner mounting
Ready-to-install complete set for mono operation.
Consisting of FT DigitalRadio 8215 U.
Consisting of speaker insert 8223 U.
Consisting of cover plate for FT DigitalRadio insert 8253-84.
Consisting of cover plate for speaker insert 8253-84.
Consisting of surface-mounted housing for corner mounting, including 2gang cover frame.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz/60 Hz
Protection class (Device): IP 20
Dimensions: (L x W x D): 156 mm x 85 mm x 70 mm

NEU

214 alpine white	**8250-214**	8200-0-0184	1

1) No claw. Screw-fixing via keyholes.
2) Open cable entries with a suitable tool.

Product	Article-No.	Order-No.	Pack/Qty
	Cover frame **1gang frame**		
	NEU		
283 Brown glass	**1721-283**	1754-0-4543	1
	Cover frame **2gang frame** For vertical or horizontal installation.		
	NEU		
283 Brown glass	**1722-283**	1754-0-4544	1
	Cover frame **3gang frame** For vertical or horizontal installation.		
	NEU		
283 Brown glass	**1723-283**	1754-0-4545	1
	Cover frame **4gang frame** For vertical or horizontal installation.		
	NEU		
283 Brown glass	**1724-283**	1754-0-4546	1
	Cover frame **5gang frame** For vertical or horizontal installation.		
	NEU		
283 Brown glass	**1725-283**	1754-0-4547	1

Product	Article-No.	Order-No.	Pack/Qty
	Flush-mounted PoE WLAN access point [1] [2] [3] **Power supply via Ethernet** Operation as WLAN access point for the connection of WLAN terminal devices to the LAN. Operation as WLAN repeater for extending the transmission range of a WLAN. Operation as WLAN adapter for integrating Ethernet terminal devices into a WLAN. Supports WLAN standards IEEE 802.11b/g/n with 2.4 GHz; integrated WLAN antenna. Backward connection of an Ethernet cable via screw terminals (10/100 Mbit/s). Front-side Ethernet connection via a RJ45 socket (10/100 Mbit/s). The three connections (WLAN, Ethernet/screw terminals and Ethernet/RJ45)can be used in parallel via the integrated switch. Power supply via the rear Ethernet connection (48 V PoE). Supply of a terminal device connected to an RJ45 socket according to PoE class 2 (6.49 W). For mounting in commercially available deep flush-mounted and hollow-wall boxes.		
	8186/41-500	8100-0-0357	1

1) Suitable for cover plate 1803-xxx.
2) Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.
3) For use with 8186/03 und 8186/04.

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate As cover for universal data connection boxes. Art.-No. 0213 (Cat 3/ISDN), 0216-101, 0218/11-101 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. For WLAN access points 8186/31 and 8186/41. Brand-Rex (WAEGV 8 EKR/EK). BTR (universal data connecting unit design and IAE design). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet.		
	Busch-Duro 2000® SI		
212 white	**1803-212**	1753-0-8949	10
	Reflex SI		
214 alpine white	**1803-214**	1753-0-8394	10

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate As cover for universal data connection boxes. Art.-No. 0213 (Cat 3/ISDN), 0216-101, 0218/11-101 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. For WLAN access points 8186/31 and 8186/41. Brand-Rex (WAEGV 8 EKR/EK). BTR (universal data connecting unit design and IAE design). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet.		
	alpha		
20 platinum [1]	**1803-20**	1753-0-8410	10
21 bronze [1]	**1803-21**	1753-0-8428	10
22G ivory	**1803-22G**	1710-0-2603	10
24 studio white matt	**1803-24**	1753-0-8436	10
24G studio white	**1803-24G**	1710-0-2025	10
260 palladium [1]	**1803-260**	1710-0-3322	10
266 titanium [1]	**1803-266**	1710-0-3348	10
	impuls		
72 ivory	**1803-72**	1753-0-0085	10
74 alpine white	**1803-74**	1753-0-8964	10
79 champagne metallic [1]	**1803-79**	1753-0-8998	10
774 studio white, matt [1]	**1803-774**	1753-0-0194	10
775 black matt [1]	**1803-775**	1753-0-0162	10
777 blackberry [1]	**1803-777**	1753-0-0130	10
783 aluminium silver [1]	**1803-783**	1753-0-0087	10

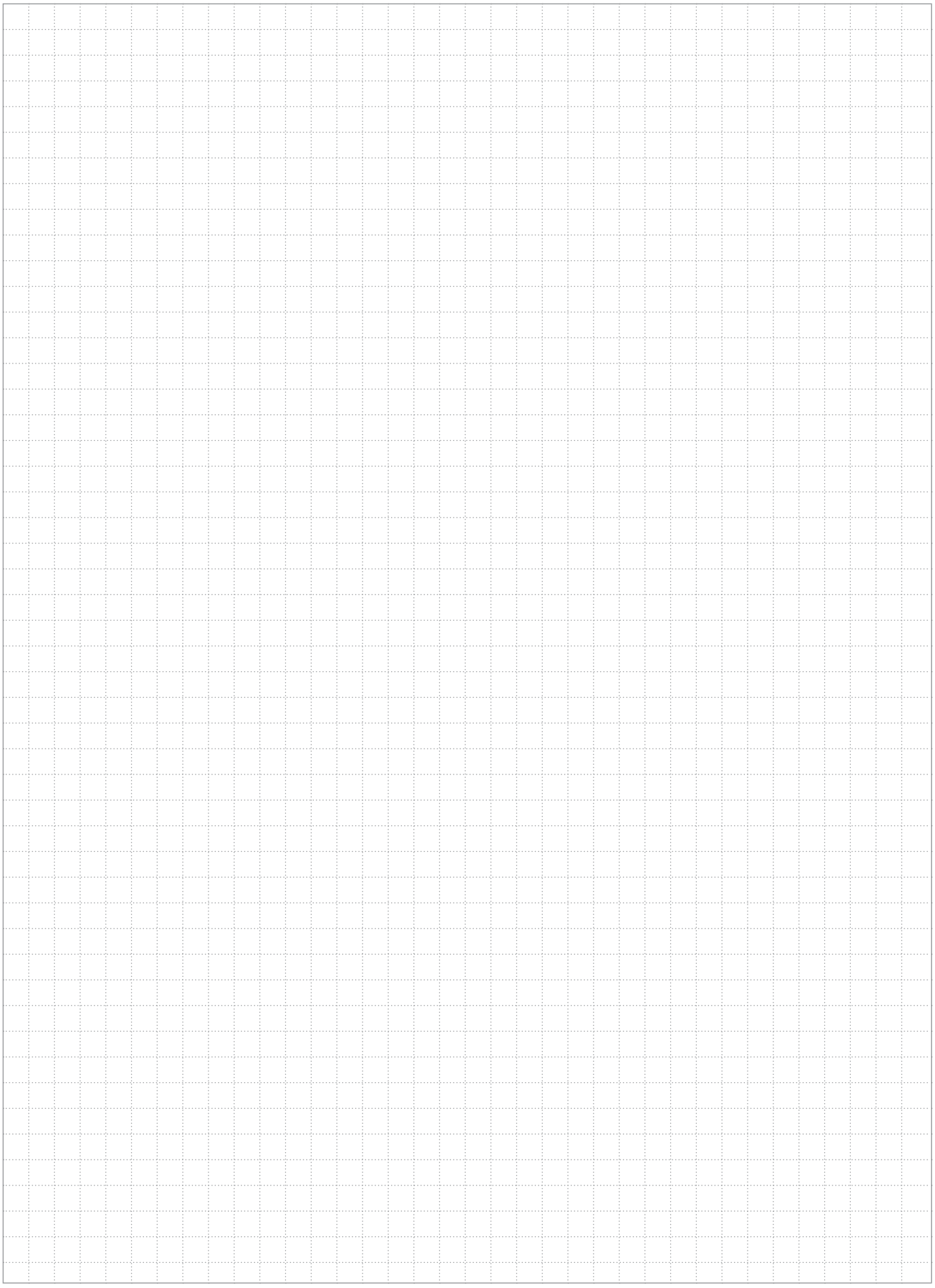
1) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate [1]) As cover for universal data connection boxes. Art.-No. 0213 (Cat 3/ISDN), 0216-101, 0218/11-101 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. For WLAN access points 8186/31 and 8186/41. Brand-Rex (WAEGV 8 EKR/EK). BTR (universal data connecting unit design and IAE design). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60.2 x 9.2 mm.		
	future® linear		
81 anthracite	**1803-81**	1710-0-3616	10
82 ivory white	**1803-82**	1710-0-3147	10
83 aluminium silver [2])	**1803-83**	1710-0-3674	10
84 studio white	**1803-84-500**	1710-0-1550	10/100
884 studio white, matt [2])	**1803-884**	1710-0-3889	10
885 black matt [2])	**1803-885**	1710-0-3912	10
	solo®		
82 ivory white	**1803-82**	1710-0-3147	10
84 studio white	**1803-84-500**	1710-0-1550	10/100
803 grey metallic [2])	**1803-803**	1710-0-3852	10
815 yellow	**1803-815**	1710-0-3832	10
	Busch-*axcent*®		
84 studio white	**1803-84-500**	1710-0-1550	10/100
896 chalet-white	**1803-896-500**	1710-0-3986	10
	carat®		
81 anthracite	**1803-81**	1710-0-3616	10
82 ivory white	**1803-82**	1710-0-3147	10
84 studio white	**1803-84-500**	1710-0-1550	10/100
	pure stainless steel		
866 stainless steel	**1803-866**	1710-0-3763	10/100

1) Labelling sheets 1799 18 and labelling software.
2) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty

Notes



Article-No.		Order-No.	Pack/ Qty	cat. page
1099 UHK	N	1032-0-0515	1/10	12
1099 UHKEA	N	1032-0-0516	1/10	12
1708-214	N	1799-0-0985	1/20	16
1721-283	N	1754-0-4543	1	17
1722-283	N	1754-0-4544	1	17
1723-283	N	1754-0-4545	1	17
1724-283	N	1754-0-4546	1	17
1725-283	N	1754-0-4547	1	17
1795 HK-20	N	1710-0-3998	10	13
1795 HK-21	N	1710-0-3999	10	13
1795 HK-212	N	1710-0-3996	10	13
1795 HK-214	N	1710-0-3997	10	13
1795 HK-22G	N	1710-0-4000	10	13
1795 HK-24	N	1710-0-4001	10	13
1795 HK-24G	N	1710-0-4002	10	13
1795 HK-260	N	1710-0-4003	10	13
1795 HK-266	N	1710-0-4004	10	13
1795 HK-72	N	1710-0-4005	10	13
1795 HK-74	N	1710-0-4006	10	13
1795 HK-774	N	1710-0-4007	10	13
1795 HK-775	N	1710-0-4008	10	13
1795 HK-777	N	1710-0-4009	10	13
1795 HK-783	N	1710-0-4010	10	13
1795 HK-79	N	1710-0-4011	10	13
1795 HK-803	N	1710-0-4012	10	13
1795 HK-81	N	1710-0-4013	10	13
1795 HK-815	N	1710-0-4014	10	13
1795 HK-82	N	1710-0-4015	10	13
1795 HK-83	N	1710-0-4016	10	13
1795 HK-84	N	1710-0-4017	10	13
1795 HK-866	N	1710-0-4018	10	13
1795 HK-884	N	1710-0-4019	10	13
1795 HK-885	N	1710-0-4020	10	13
1795 HK-896	N	1710-0-4021	10	13
1795 HKEA-20	N	1710-0-4030	10	13
1795 HKEA-21	N	1710-0-4031	10	13
1795 HKEA-212	N	1710-0-4028	10	13
1795 HKEA-214	N	1710-0-4029	10	13
1795 HKEA-22G	N	1710-0-4032	10	13
1795 HKEA-24	N	1710-0-4033	10	13
1795 HKEA-24G	N	1710-0-4034	10	13
1795 HKEA-260	N	1710-0-4035	10	13
1795 HKEA-266	N	1710-0-4036	10	13
1795 HKEA-72	N	1710-0-4037	10	14
1795 HKEA-74	N	1710-0-4038	10	14
1795 HKEA-774	N	1710-0-4039	10	14
1795 HKEA-775	N	1710-0-4040	10	14
1795 HKEA-777	N	1710-0-4041	10	14
1795 HKEA-783	N	1710-0-4042	10	14
1795 HKEA-79	N	1710-0-4043	10	14
1795 HKEA-803	N	1710-0-4044	10	14
1795 HKEA-81	N	1710-0-4045	10	14
1795 HKEA-815	N	1710-0-4046	10	14
1795 HKEA-82	N	1710-0-4047	10	14
1795 HKEA-83	N	1710-0-4048	10	14
1795 HKEA-84	N	1710-0-4049	10	14
1795 HKEA-866	N	1710-0-4050	10	14
1795 HKEA-884	N	1710-0-4051	10	14
1795 HKEA-885	N	1710-0-4052	10	14
1795 HKEA-896	N	1710-0-4053	10	14
1803-20		1753-0-8410	10	17
1803-21		1753-0-8428	10	17
1803-212		1753-0-8949	10	17
1803-214		1753-0-8394	10	17
1803-22G		1710-0-2603	10	17
1803-24		1753-0-8436	10	17
1803-24G		1710-0-2025	10	17
1803-260		1710-0-3322	10	17
1803-266		1710-0-3348	10	17
1803-72		1753-0-0085	10	17
1803-74		1753-0-8964	10	17
1803-774		1753-0-0194	10	17
1803-775		1753-0-0162	10	17
1803-777		1753-0-0130	10	17
1803-783		1753-0-0087	10	17
1803-79		1753-0-8998	10	17
1803-803		1710-0-3852	10	18
1803-81		1710-0-3616	10	18
1803-815		1710-0-3832	10	18
1803-82		1710-0-3147	10	18
1803-83		1710-0-3674	10	18
1803-84-500		1710-0-1550	10/100	18
1803-866		1710-0-3763	10/100	18
1803-884		1710-0-3889	10	18
1803-885		1710-0-3912	10	18
1803-896-500		1710-0-3986	10	18
6406 U	N	6400-0-0034	1	11
6455-101-500	N	6410-0-0399	1	14
6456-101	N	6410-0-0398	1	14
6476-212	N	6470-0-0001	10	11
6476-214	N	6470-0-0002	10	11
6476-82	N	6470-0-0003	10	11
6476-84	N	6470-0-0004	10	11
6701-101-500	N	6700-0-0040	1/10	15
6705-101-500	N	6700-0-0042	1/10	16
6725-500	N	6720-0-0008	1/10	15
6833-84-500	N	6800-0-2720	1/10	12
6833/01-84-500	N	6800-0-2721	1/10	12
6834-84-500	N	6800-0-2719	1/10	12
6835/01-84-500	N	6800-0-2723	1	12
8186/41-500		8100-0-0357	1	17
8250-214	N	8200-0-0184	1	16
BA-M-0.4.1	N	2CDG510011R0011	1	10
BI-F-2.0.1	N	2CDG510002R0011	1	11
BI-F-4.0.1	N	2CDG510003R0011	1	11
BI-M-4.0.1	N	2CDG510004R0011	1	11
CP-RTC-212	N	6220-0-0210	10	9
CP-RTC-214	N	6220-0-0211	10	9
CP-RTC-81	N	6220-0-0179	10	9
CP-RTC-83	N	6220-0-0180	10	9
CP-RTC-84	N	6220-0-0181	10	9
DA-M-0.4.1	N	6220-0-0135	1	10
DP7-S-611	N	8300-0-0356	1	3
DP7-S-625	N	8300-0-0357	1	3
HA-M-0.12.1	N	2CDG510009R0011	1	10
HA-M-0.6.1	N	2CDG510008R0011	1	10
MD-F-1.0.1-212	N	6220-0-0218	1	2
MD-F-1.0.1-214	N	6220-0-0219	1	2
MD-F-1.0.1-81	N	6220-0-0212	1	2
MD-F-1.0.1-83	N	6220-0-0213	1	2
MD-F-1.0.1-84	N	6220-0-0214	1	2
MSA-F-1.1.1-212	N	6220-0-0220	1	5
MSA-F-1.1.1-214	N	6220-0-0221	1	5
MSA-F-1.1.1-81	N	6220-0-0215	1	5
MSA-F-1.1.1-83	N	6220-0-0216	1	5
MSA-F-1.1.1-84	N	6220-0-0217	1	5
PS-M-64.1.1	N	2CDG510001R0011	1	9
RTC-F-1	N	6220-0-0122	1	2
SA-M-0.4.1	N	2CDG510006R0011	1	10
SAP-S-1-84	N	6220-0-0136	1	9
SBA-F-1.1.1	N	6220-0-0128	1	4
SBA-F-2.1.1	N	6220-0-0129	1	5
SDA-F-1.1.1	N	6220-0-0126	1	4
SDA-F-2.1.1	N	6220-0-0127	1	4
SR-1-212	N	6220-0-0182	10	6
SR-1-214	N	6220-0-0183	10	6
SR-1-81	N	6220-0-0137	10	6
SR-1-83	N	6220-0-0138	10	6
SR-1-84	N	6220-0-0139	10	6
SR-2-212	N	6220-0-0192	10	7
SR-2-214	N	6220-0-0193	10	7
SR-2-81	N	6220-0-0152	10	7
SR-2-83	N	6220-0-0153	10	7
SR-2-84	N	6220-0-0154	10	7
SRB-1-212	N	6220-0-0186	10	6
SRB-1-214	N	6220-0-0187	10	6
SRB-1-81	N	6220-0-0143	10	6
SRB-1-83	N	6220-0-0144	10	6
SRB-1-84	N	6220-0-0145	10	6
SRB-2-212	N	6220-0-0196	10	7
SRB-2-214	N	6220-0-0197	10	7
SRB-2-81	N	6220-0-0158	10	7
SRB-2-83	N	6220-0-0159	10	7
SRB-2-84	N	6220-0-0160	10	7
SRD-1-212	N	6220-0-0190	10	7
SRD-1-214	N	6220-0-0191	10	7
SRD-1-81	N	6220-0-0149	10	7
SRD-1-83	N	6220-0-0150	10	7
SRD-1-84	N	6220-0-0151	10	7
SRD-2-L-212	N	6220-0-0200	10	8
SRD-2-L-214	N	6220-0-0201	10	8
SRD-2-L-81	N	6220-0-0164	10	8
SRD-2-L-83	N	6220-0-0165	10	8
SRD-2-L-84	N	6220-0-0166	10	8
SRD-2-R-212	N	6220-0-0261	10	9
SRD-2-R-214	N	6220-0-0262	10	9
SRD-2-R-81	N	6220-0-0258	10	9
SRD-2-R-83	N	6220-0-0259	10	9
SRD-2-R-84	N	6220-0-0260	10	9
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SRL-1-214	N	6220-0-0185	10	6
SRL-1-81	N	6220-0-0140	10	6
SRL-1-83	N	6220-0-0141	10	6
SRL-1-84	N	6220-0-0142	10	6
SRL-2-L-212	N	6220-0-0194	10	7
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SRL-2-R-212	**N**	6220-0-0202	10	8
SRL-2-R-214	**N**	6220-0-0203	10	8
SRL-2-R-81	**N**	6220-0-0167	10	8
SRL-2-R-83	**N**	6220-0-0168	10	8
SRL-2-R-84	**N**	6220-0-0169	10	8
SRS-1-212	**N**	6220-0-0188	10	6
SRS-1-214	**N**	6220-0-0189	10	6
SRS-1-81	**N**	6220-0-0146	10	6
SRS-1-83	**N**	6220-0-0147	10	6
SRS-1-84	**N**	6220-0-0148	10	6
SRS-2-L-212	**N**	6220-0-0198	10	8
SRS-2-L-214	**N**	6220-0-0199	10	8
SRS-2-L-81	**N**	6220-0-0161	10	8
SRS-2-L-83	**N**	6220-0-0162	10	8
SRS-2-L-84	**N**	6220-0-0163	10	8
SRS-2-R-212	**N**	6220-0-0206	10	8
SRS-2-R-214	**N**	6220-0-0207	10	8
SRS-2-R-81	**N**	6220-0-0173	10	8
SRS-2-R-83	**N**	6220-0-0174	10	8
SRS-2-R-84	**N**	6220-0-0175	10	8
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SSA-F-2.1.1	**N**	6220-0-0124	1	3
SSA-F-2.2.1	**N**	6220-0-0125	1	4
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SU-F-2.0.1	**N**	6220-0-0118	1	2

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1710-0-2603		1803-22G	10	17
1710-0-3147		1803-82	10	18
1710-0-3322		1803-260	10	17
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1710-0-4007	N	1795 HK-774	10	13
1710-0-4008	N	1795 HK-775	10	13
1710-0-4009	N	1795 HK-777	10	13
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1710-0-4048	N	1795 HKEA-83	10	14
1710-0-4049	N	1795 HKEA-84	10	14
1710-0-4050	N	1795 HKEA-866	10	14
1710-0-4051	N	1795 HKEA-884	10	14
1710-0-4052	N	1795 HKEA-885	10	14
1710-0-4053	N	1795 HKEA-896	10	14
1753-0-0085		1803-72	10	17
1753-0-0087		1803-783	10	17
1753-0-0130		1803-777	10	17
1753-0-0162		1803-775	10	17
1753-0-0194		1803-774	10	17
1753-0-8394		1803-214	10	17
1753-0-8410		1803-20	10	17
1753-0-8428		1803-21	10	17
1753-0-8436		1803-24	10	17
1753-0-8949		1803-212	10	17
1753-0-8964		1803-74	10	17
1753-0-8998		1803-79	10	17
1754-0-4543	N	1721-283	1	17
1754-0-4544	N	1722-283	1	17
1754-0-4545	N	1723-283	1	17
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2CDG510006R0011	N	SA-M-0.4.1	1	10
2CDG510008R0011	N	HA-M-0.6.1	1	10
2CDG510009R0011	N	HA-M-0.12.1	1	10
2CDG510011R0011	N	BA-M-0.4.1	1	10
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6220-0-0118	N	SU-F-2.0.1	1	2
6220-0-0122	N	RTC-F-1	1	2
6220-0-0123	N	SSA-F-1.1.1	1	3
6220-0-0124	N	SSA-F-2.1.1	1	3
6220-0-0125	N	SSA-F-2.2.1	1	4
6220-0-0126	N	SDA-F-1.1.1	1	4
6220-0-0127	N	SDA-F-2.1.1	1	4
6220-0-0128	N	SBA-F-1.1.1	1	4
6220-0-0129	N	SBA-F-2.1.1	1	5
6220-0-0135	N	DA-M-0.4.1	1	10
6220-0-0136	N	SAP-S-1-84	1	9
6220-0-0137	N	SR-1-81	10	6
6220-0-0138	N	SR-1-83	10	6
6220-0-0139	N	SR-1-84	10	6
6220-0-0140	N	SRL-1-81	10	6
6220-0-0141	N	SRL-1-83	10	6
6220-0-0142	N	SRL-1-84	10	6
6220-0-0143	N	SRB-1-81	10	6
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6220-0-0145	N	SRB-1-84	10	6
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6220-0-0151	N	SRD-1-84	10	7
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6220-0-0156	N	SRL-2-L-83	10	7
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6220-0-0162	N	SRS-2-L-83	10	8
6220-0-0163	N	SRS-2-L-84	10	8
6220-0-0164	N	SRD-2-L-81	10	8
6220-0-0165	N	SRD-2-L-83	10	8
6220-0-0166	N	SRD-2-L-84	10	8
6220-0-0167	N	SRL-2-R-81	10	8
6220-0-0168	N	SRL-2-R-83	10	8
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6220-0-0173	N	SRS-2-R-81	10	8
6220-0-0174	N	SRS-2-R-83	10	8
6220-0-0175	N	SRS-2-R-84	10	8
6220-0-0179	N	CP-RTC-81	10	9
6220-0-0180	N	CP-RTC-83	10	9
6220-0-0181	N	CP-RTC-84	10	9
6220-0-0182	N	SR-1-212	10	6
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6220-0-0193	N	SR-2-214	10	7
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6220-0-0195	N	SRL-2-L-214	10	7
6220-0-0196	N	SRB-2-212	10	7
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6220-0-0210	N	CP-RTC-212	10	9
6220-0-0211	N	CP-RTC-214	10	9
6220-0-0212	N	MD-F-1.0.1-81	1	2
6220-0-0213	N	MD-F-1.0.1-83	1	2
6220-0-0214	N	MD-F-1.0.1-84	1	2
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Contact us

A member
of the ABB Group

Busch-Jaeger Elektro GmbH
P.O. Box
58505 Lüdenscheid
Germany

Freisenbergstraße 2
58513 Lüdenscheid
Germany

www.BUSCH-JAEGER.com
info.bje@de.abb.com

Central sales service:

Phone +49 (0) 2351 956-1600
Fax +49 (0) 2351 956-1700

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